

## Claims

- [c1] 1. A method for forming a hollow, metallic golf club head, the method comprising:
- placing a ceramic core into a first mold cavity, the first mold cavity having a plurality of depressions formed therein;
  - injecting wax into the first mold cavity to fill in the plurality of depressions, the wax adhering to portions of an exterior surface of the ceramic core and forming a plurality of wax protuberances on the exterior surface, each protuberance corresponding to a respective depression in the first mold cavity;
  - placing the ceramic core with the wax protuberances into a second mold cavity, the second mold cavity having a shape complementary to a desired exterior of the golf club head, the plurality of wax protuberances properly positioning the ceramic core in the second mold cavity;
  - injecting wax into the second mold cavity, the wax adhering to a majority of the exterior surface of the ceramic core and to the wax protuberances;
  - forming a shell over the wax;
  - melting the wax to form a gap between the shell and the ceramic core; and
  - casting molten metal into the gap to form the golf club head.
- [c2] 2. The method according to claim 1, further comprising providing the first mold cavity with the plurality of depressions, each depression having a depth substantially equal to a desired wall thickness of a corresponding portion of the golf club head.
- [c3] 3. The method according to claim 2, further comprising providing the first mold cavity with a plurality of channels formed therein, the channels interconnecting the depressions.
- [c4] 4. The method according to claim 1, wherein placing the ceramic core into the first and second mold cavities includes fully enclosing the ceramic core within each of the first and second mold cavities.
- [c5] 5. The method according to claim 1, further comprising removing the ceramic core from the metal golf club head.

- [c6] 6. An apparatus for forming a hollow golf club head, the apparatus comprising:  
a first mold having a cavity with a plurality of depressions formed therein, each of the depressions having a depth substantially equal to a desired wall thickness of a corresponding portion of the golf club head;  
a second mold having a cavity formed therein, the second mold cavity being larger than the first mold cavity and having a shape complementary to a desired exterior of the golf club head; and  
means for injecting wax into the first and second mold cavities.
- [c7] 7. The apparatus according to claim 6, further comprising a ceramic core having an exterior surface corresponding to an interior of the golf club head, the ceramic core being removably and sequentially placed in the first and second mold cavities.
- [c8] 8. The apparatus according to claim 7, wherein the ceramic core is fully enclosed within each of the first and second mold cavities.
- [c9] 9. The apparatus according to claim 7, wherein the means for injecting wax forms a plurality of protuberances on the exterior surface of the ceramic core when the ceramic core is placed in the first mold cavity, each protuberance corresponding to a respective depression in the first mold cavity.
- [c10] 10. The apparatus according to claim 9, wherein the plurality of wax protuberances properly position the ceramic core in the second mold cavity.
- [c11] 11. The apparatus according to claim 10, wherein the means for injecting wax forms wax about a majority of the exterior surface of the ceramic core and the wax protuberances.
- [c12] 12. The apparatus according to claim 6, wherein the first mold cavity further includes a plurality of channels formed therein, the channels interconnecting the depressions.